

## The Claims

1. (amended) A self-adjusting mechanism for a conventional mercury bulb thermostat for modifying a setting thereof as a result of humidity differences to adjust a temperature in a HVAC controlled space, said self-adjusting mechanism comprising
  - a) a first cylindrical mounting plate attachable to a wall;
  - b) a second enhanced cylindrical mounting plate to which ~~[[a]]~~ the conventional mercury bulb thermostat is attached, said second enhanced cylindrical mounting plate being mounted for limited rotation relative to said first cylindrical mounting plate to adjust a relative rotational position of said second enhanced cylindrical mounting plate;
  - c) means to sense a humidity in the HVAC controlled space and adjust said relative rotational position of said second enhanced cylindrical mounting plate thereby adjusting a temperature setting of the thermostat by tilting the mercury bulb, lowering the temperature for more humid air and increasing the temperature for drier air.
2. (original) The self-adjusting mechanism of Claim 1 wherein said means to sense and adjust comprises a spring.
3. (original) The self-adjusting mechanism of Claim 2 wherein said spring comprises a composite coil spring which expands and contracts differentially responsive to changes in humidity.
4. (amended) The self-adjusting mechanism of Claim 3 further comprising a hub integrally formed with ~~[[the]]~~ said first cylindrical mounting plate, said hub having said spring coiled thereabout.
5. (original) The self-adjusting mechanism of Claim 4 wherein said hub has a slot which receives a first end of said spring.
6. (original) The self-adjusting mechanism of Claim 5 wherein said ~~[[further comprising a]]~~ second enhanced cylindrical mounting plate ~~[[having]]~~ further comprises a central collar which rotates on said hub, said second enhanced cylindrical mounting plate

supporting [[a]] the thermostat with a mercury bubble mounted thereon and having a second end of said spring attached thereto.

7. (original) The self-adjusting mechanism of Claim 6 further comprising a level mounted on said second enhanced cylindrical mounting plate to facilitate proper installation of said self-adjusting mechanism.